

Work Order ID 139927

Monday, December 14, 2015 1:50:58 PM

139927

Page 1

Item ID: D5335-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: PRELIM Stop ***NS2***
 Item Name: Data Plate
 Start Date: 12/14/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 12/14/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLS Date: DEC 14 2015 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D5335	<u>A2</u> <u>Rev A</u> <u>5.7.10.102</u>								
100		0.00							
100									
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per dwg								
	2-Deburr as required								
120	QC2- Inspect parts off machine FAI/FAIB	0.00							
120									
QC	Memo	0.00							
Quality Control									
125	QC8- Inspect parts - second check	0.00							
125									
QC	Memo	0.00							
Quality Control									

Rev A Drawn 5.7.10.102
PRELIMINARY ISSUE

①

12/16/01/05

①

12/15/01/05

①

16-01-05

DAS
9
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER :			

Work Order ID 139927

Monday, December 14, 2015 1:50:58 PM

139927

PRELIMINARY ISSUE

Page 2

Item ID: D5335-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: PRELIM Stop ***NS2***
 Item Name: Data Plate
 Start Date: 12/14/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 12/14/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Bend as per dwg	0.00							JAN 06 2016
130									
Brake NC	Memo	0.00			DAS 30 9-89	1			
Brake NC									
140	QC5- Inspect part completeness to step on W/O	0.00							
140									
QC	Memo	0.00							DAS 38 9-89
Quality Control									JAN 06 2016
150	Identify as per dwg & Stock Location: PRELIM	0.00							
150									
Packaging	Memo	0.00							
Packaging	***STOCK IN BASKET CELL***								

POSITIVE RECALL

EFFECTIVE DEC 14 2015

RELEASED

DATE 7/21/17

DATE 7/21/17

R015-1016-01

Re a Drawn Attach

5/7/15

DAS
38
9-89

JAN 06 2016

16-4-11

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By	
REFERRED TO MRB FOR APPROVAL 2024-08-20 10:00 AM				30 10:00 AM				Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Work Order ID 139927***139927***

PRELIMINARY ISSUE

Page 3

Monday, December 14, 2015 1:50:58 PM

Item ID: D5335-1 Accept ***N9000040100*** Setup Start ***NS1***
Revision ID: PRELIM Stop ***NS2***
Item Name: Data Plate
Start Date: 12/14/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 12/14/2015 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
		OTHER :							

Picklist Print

Monday, December 14, 2015 1:51:01 PM

PRELIMINARY ISSUE

Page 1

Work Order ID: 139927

139927

Parent Item: D5335-1

D5335-1

Parent Item Name: Data Plate

Start Date: 12/14/2015

Required Date: 12/14/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 15.10.14 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M304S20GA

Purchased

No

sf

96.0000

0.141053

**

15/01/07
ack

M304S20GA

304/316 .040 Sheet

Location

Loc Qty

Loc Code

MAT020

96

m133511

96

15

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



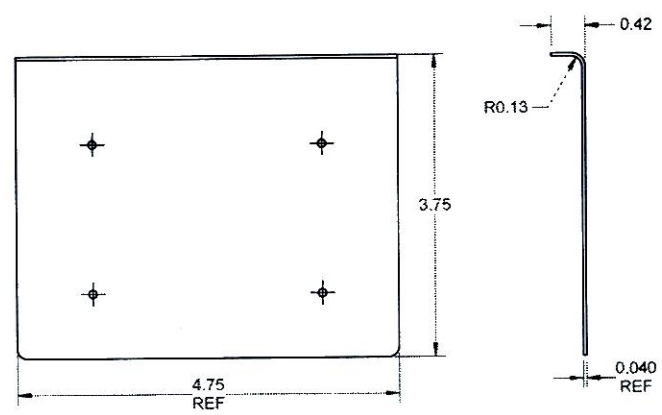
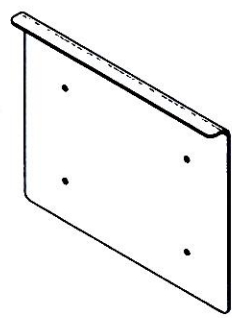
QA Closed: _____ Date: _____

Work Order update only ☐

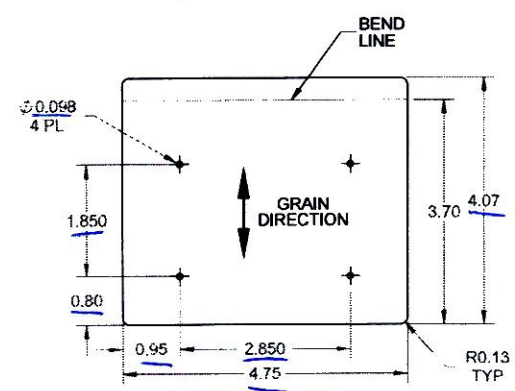
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																									
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

PRELIMINARY ISSUE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
139927 MJS
15-12-14



D5335-1 DATA PLATE



D5335-1F FLAT PATTERN

NOTES:

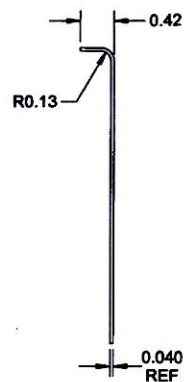
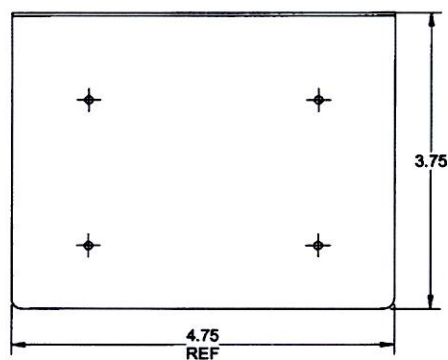
- 1) MATERIAL: 304/316 STAINLESS STEEL SHEET, 0.040 THICK, ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S20GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.22 lbs

PRELIMINARY ISSUE

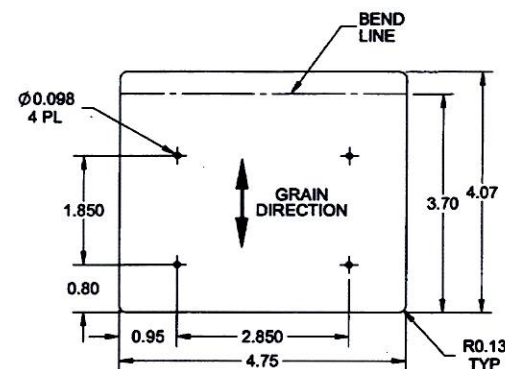
A		NEW ISSUE		RF		15.08.10	
REV.		DESCRIPTION		BY		DATE	
DESIGN		RF		DART AEROSPACE LTD			
DRAWN		RF		HAWKESBURY, ONTARIO, CANADA			
CHECKED		AK		DRAWING NO.		REV. A2	
MFG. APPR.		DD		D5335		SHEET 1 OF 1	
APPROVED				TITLE		SCALE	
DE APPR.				DATA PLATE		NTS	
DATE		15.08.10		COPYRIGHT © 2015 BY DART AEROSPACE LTD		THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

INSPECTION SHEET

Rev	Date	Change	Revised by	Approved
B	14.07.31	New Issue	KJ	



D5335-1 DATA PLATE



D5335-1F FLAT PATTERN

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 0.040 THICK, ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S20GA
- 2) FINISH : NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.22 lbs

RELEASED
2016-01-21
EN 1606

APPROVED

A NEW ISSUE		RF	15.08.10
REV.	DESCRIPTION		BY DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	AK	DRAWING NO.	REV. A
MFG. APPR.	DD	D5335	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	DATA PLATE	NTS
DATE	15.08.10	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE SUPPLIER'S CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Purchase Order Receipt Listing

Monday, November 02, 2015 10:05:08 AM

Page 1 of 2

All amounts are calculated in domestic currency.

All Vendors PO ID PO30309 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO30309	1		M174B1.500X02.250 f		11/12/2015	11/2/2015	12.0000	\$38.37	0.0000	0	
CAD	No		17-4 SS Bar 1.50 f		12.0000	DCUSER		\$460.44	0.0000	0	\$460.44
			X2.250								
			m133511								
	5		M304S16GA	sf	11/4/2015	11/2/2015	160.0000	\$3.00	0.0000	0	
	No		304/316 Sheet .063 sf		160.0000	DCUSER		\$480.75	0.0000	0	\$480.75
			m133511								
	6		M304S20GA	sf	11/4/2015	11/2/2015	96.0000	\$2.25	0.0000	0	
	No		304/316 .040 Sheet sf		96.0000	DCUSER		\$215.80	0.0000	0	\$215.80
			m133511								
	8		M6061T6B0.500X01.250		11/4/2015	11/2/2015	12.0000	\$2.19	0.0000	0	
	No		6061-T6 Bar .500 x 1.25	f	12.0000	DCUSER		\$26.23	0.0000	0	\$26.23
			m133511								
	9		M6061T6B1.000X02.000		11/4/2015	11/2/2015	12.0000	\$4.07	0.0000	0	
	No		6061-T6 Bar 1.00 x 2.00	f	12.0000	DCUSER		\$48.89	0.0000	0	\$48.89
			m133511								
	10		M6061T6B1.500X02.500		11/4/2015	11/2/2015	12.0000	\$8.17	0.0000	0	
	No		6061-T6 Bar 1.50 x 2.50	f	12.0000	DCUSER		\$98.01	0.0000	0	\$98.01
			m133511								
	11		M6061T6B2.000X01.250		11/4/2015	11/2/2015	12.0000	\$5.06	0.0000	0	
	No		6061-T6 Bar 2.00 x 1.25	f	12.0000	DCUSER		\$60.69	0.0000	0	\$60.69
			m133511								

mat not
rec'd cannot undo
rec'd give same batch # when mat is rec'd.
11/5/11/02

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO30309	13		M6061T6S.063 sf		11/4/2015	11/2/2015	192.0000	\$2.16	0.0000	0	\$414.81
CAD	No		6061-T6 .063 Sheet sf		192.0000	DCUSER		\$414.81	0.0000	0	
			m133511								
	14		71401-45		11/4/2015	11/2/2015	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT		1.0000	DCUSER		\$0.00	0.0000	0	
			QUALITY CLAUSES								
			m133511								

Total Received Quantity:	509.0000
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$1,805.63
Total Balance Due Quantity:	0.0000

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 961589
Ship Date 02Nov15 at 13:10 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-862166- 6 Your PO # 30309

ALUMINUM FLAT BAR 6061-T6511
1.250" x 2.00" X 144.0000"

Heat Number

184306-1

Tag No

469556

Quantity

12 FT

PCS

1

Wt LBS

35

MTR

7) Our Order PEC-862166- 7 Your PO # 30309

ALUMINUM SHEET 6061 T6
.0640 Nom X 48.0000" X 144.0000"

Heat Number

Z-1412Y6055

Tag No

469720

Quantity

192.00 SFT

PCS

4

Wt LBS

159

MTR

8) Our Order PEC-862166- 8 Your PO # 30309

ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.50" X 144.0000"

Heat Number

Z00635041

Tag No

469557

Quantity

12 FT

PCS

1

Wt LBS

53

MTR

TOTAL:

Tags

7

PCS

16

LBS

805

Heat Number
184306-1
483283
AOA004-AAB
AOA005-AAH
HK104-200
Z-1412Y6055
Z00635041

*** Chemical Analysis ***

801511-2

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

Page: 2Continued

ALUMINIUM • CAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
VQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

JC 0 ARR

781

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 961589
 Ship Date 02Nov15 at 13:10 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-862166- 1 Your PO # 30309

STAINLESS STEEL SHEET 304-2B
 .0600 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 AOA005-AAH 469716

Quantity PCS MTR Wt LBS
 160.00 SFT 5 385

2) Our Order PEC-862166- 2 Your PO # 30309

STAINLESS STEEL SHEET 304-2B
 .0360 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 AOA004-AAH 469717

Quantity PCS MTR Wt LBS
 96.00 SFT 3 136

3) Our Order PEC-862166- 3 Your PO # 30309

ALUMINUM FLAT BAR 6061-T6511
 .187" x 4.00" X 144.0000"

B/O

4) Our Order PEC-862166- 4 Your PO # 30309

ALUMINUM FLAT BAR 6061-T6511
 .50" x 1.250" X 144.0000"

Heat Number Tag No
 483283 469554

Quantity PCS MTR Wt LBS
 12 FT 1 9

5) Our Order PEC-862166- 5 Your PO # 30309

ALUMINUM FLAT BAR 6061-T6511
 1.00" x 2.00" X 144.0000"

Heat Number Tag No
 HK104-200 469555

Quantity PCS MTR Wt LBS
 12 FT 1 28

Page: 1Continued

015-11-2

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF LADING

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 961589
Ship Date 02Nov15 at 13:10 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

BILL OF LADING

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL 1 SKID GW. 1002 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

THYSSENKRUPP MATERIALS NA WILL CONDUCT THEIR
INVENTORY, SEPT. 24 & 25/2015. THERE WILL BE NO
CUSTOMER PICKUPS THOSE DAYS. HOWEVER, THE SALES
OFFICE WILL REMAIN OPEN.

Page: 3 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
VQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
0600 Nom X 48.0000" X 96.0000"
PART NO.

PO/REF 50309

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results

BL PEC-961589-001

2Nov15
Pg 1/1



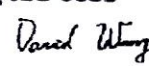
運錫鋼鐵股份有限公司
YUEN CHANG STAINLESS STEEL CO.,

檢驗證明書

MILL TEST CERTIFICATE

發印日期 ISSUE DATE : 2015/04/27

高雄市府金甌中正路235號13F
13F, No. 235 Jungjeng 4th Road, Chianjin
Chiu, Kaohsiung, Taiwan
TEL : 886-7-9695858 FAX : 886-7-9685768
http://www.yuenchang.com.tw

客戶名稱 Customer	Thyssenkrupp Steel Services A Division Of Thyssenkrupp Materials Na Inc 22355 West Eleven Mile Road Southfield MI 48033 USA											DAS 14 9-89		15/11/03				
商品描述 Desc. Of Goods	Description Of Goods And/Or Services : Prime, Cold Rolled Stainless Steel Coil/Sheets, Slitted Edge, As Per ASTM A240/A480. Grade 304, 2B Finish Grade 304, No.4 Finish, Laser PVC On One Main Side, With Back Pass Grade 304, 2B Finish, With Paper Interleaf																	
項目 Item	鋼捲編號 Coil No.	爐號 Heat Number(s)	鋼種 Steel Grade	表面 Finish	產品尺寸 Thickness x Width x Length (INCH)	淨重 Net Weight (KGS)												
AE004	CCBE0004-15	AOA010-AAD	304	2B	20GA x 48 x 96	1,158												
AE005	CCBE0003-05	AOA010-AAD	304	2B	20GA x 48 x 96	189												
	CCBE0004-14	AOA010-AAD	304	2B	20GA x 48 x 96	971												
AE001	CCWR0007-22	AOA005-AAH	304	2B	16GA x 48 x 96	934												
AE006	CCWR0007-23	AOA005-AAH	304	2B	16GA x 48 x 96	418												
AE003	CCCS0396-29	ANJ033-AAF	304	NO.4	20GA x 48 x 120	1,411												
化學成分 Chemical Composition / Chemical Analysis (%)																		
Item	C	Si	Mn	P	S	Cr	Ni	N	Cu	Mo	Others	T.S N/MM2	YS(0.2%) N/MM2	Elong (%)	HB	HRB	HV	
AE004	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		654	306	56.0			171.0	
AE005	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		652	311	56.0			170.0	
	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		654	306	56.0			171.0	
AE001	0.021	0.270	1.330	0.030	0.0083	18.290	8.020	0.077	0.310	0.150		668	344	49.0			187.0	
AE006	0.021	0.270	1.330	0.030	0.0083	18.290	8.020	0.077	0.310	0.150		668	344	49.0			187.0	
AE003	0.018	0.340	1.390	0.031	0.0054	18.200	8.030	0.074	0.270	0.100		643	280	60.0			166.0	
這證明本表所列產品，均係材料規格製造及試驗，並符合規格之要求。 We hereby certify that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. 本產品無輻射污染，並且不含汞。The material described above is free from radiation contamination and mercury. 本證明書符合EN10204/Type 3.1認證。Inspection certificate in accordance with EN10204/Type 3.1. 本表所列產品均符合ASTM A240規範要求。All the above products conform to the requirements specified in ASTM A240. WE HEREBY CERTIFYING THE MATERIAL TO ASTM A240/A480 AS PER EN 10204/3.1 THYSSENKRUPP MATERIALS NA PO PEC-263720, PEC-263821																		
															QC Manager		ISO 9001	
																		

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" x 1.250" X 144.0000"

PART NO.

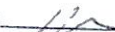
PO/Ref 30309

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-004

2Nov15

Signed by: 

Pg 1/1



LB ALUMINIUM BERHAD
(138535-V)

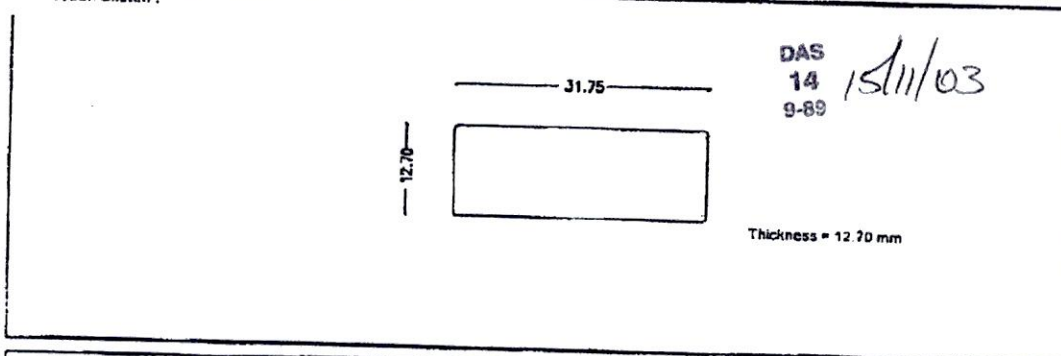


ALUMINIUM EXTRUSION

TEST CERTIFICATE

CUSTOMER: THYSSENKRUPP MATERIALS NA	SECTION NO.: PE01588MP03660	DATE: Jan-26-2015
SALES ORDER NO.: 1493872	WORK ORDER: 483283	ALLOY: 6061-T6511
PRESS NO.: 2000	EXTRUSION DATE: Jan-06-2015	CERTIFICATE NO.: MCERT1500760
CUSTOMER PO NO.: PEC-263562		

Section Sketch:



CHEMICAL COMPOSITION										
Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref.
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00		
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	Remainder	75548
Actual	0.591	0.191	0.215	0.035	0.945	0.048	0.010	0.012		Nov-26-2014

MECHANICAL PROPERTIES (Result shown is tested by LHALUM)			
	Tensile Strength N/mm ²	Yield Stress N/mm ²	Elongation (%)
Standard	260	240	6
Result	311.68	277.89	16.40

Compliance with ASTM B221M-07
We hereby certify that the material covered by this report has been verified or tested according to the applicable sampling method or the requirements of any specifications or requirements described herein, and that sample representative of the material met the composition limits and had the mechanical properties shown. Also, note that mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds are used in the manufacture of our extrusions. This certificate conforms to 3.1. EN 10204.

** This certificate of Analysis has been produced electronically and is valid without signature **

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Heranang, Selangor Darul Ehsan, Malaysia.

Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)

Enquiry@lbalum.com.my www.lbalum.com

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

PART NO.

PO/Rel 30309

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-005

2Nov15

Signed by: 

Pg 1/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-270243-4		CUSTOMER PART NUMBER: B22/STK		PRODUCT DESCRIPTION: 1.000 X 2.000 SC RECT BAR	
KAISER ORDER NUMBER: 695075	LINE ITEM: 004	SHIP DATE: 10/01/2015	KAISER LOT NUMBER: HK104-200	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 0.000 LB	QUANTITY: 0.000 PCS	B/L NUMBER: 613391	DIAM/DAF/THKMS	WIDTH:	LENGTH: FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
HK104-200	0001	1	51.4	45.7	18.0	RE 91	N/A	N/A
HK104-200	0002	2	44.7	36.1	22.0	RE 91	N/A	N/A
HK104-200	0003	3	54.7	49.5	14.0	RE 93	N/A	N/A
HK104-200	0004	4	44.1	36.4	20.0	RE 94	N/A	N/A
HK104-200	0005	5	44.3	37.1	18.0	RE 90	N/A	N/A
HK104-200	0006	6	44.2	37.1	20.0	RE 90	N/A	N/A
HK104-200	0007	7	44.2	36.9	20.0	RE 92	N/A	N/A
HK104-200	0008	8	44.6	37.7	20.0	RE 95	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.75	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
T50811	.60	.22	.26	.07	.83	.05	.01	.00	.00	.00	.00	.00	.00

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 1998 SECT II (AMS-QQ-A-200/3 97 (REF 2012) UNS#A96061
(T6511 also conforms to T6 not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00196228

Kaiser Order Number: 695075

Line Item: 004

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6S11

1.00" x 2.00" X 144.0000"

PART NO.

PO/Rel 30309

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-005

2Nov15

Signed by: 

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.50" X 144.0000"
PART NO.

PO/Rel 30309

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-008

2Nov15

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-269785-3		CUSTOMER PART NUMBER: 470/STK		PRODUCT DESCRIPTION: 1.500 X 2.500 SC RECT BAR	
KAISER ORDER NUMBER: 693752	LINE ITEM: 003	SHIP DATE: 09/10/2015	KAISER LOT NUMBER: Z00635041	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1058.000 LB	QUANTITY: 20.000 PCS	B/L NUMBER: 613147	DIA/DIA THKNS: 1.500	WIDTH: 2.500	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: DAS 14 15/11/03 9-89 THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00635041	0001	0001	49.8	46.6	16.6	RE 92	N/A	N/A
Z00635041	0001	0002	50.4	47.2	15.7	RE 94	N/A	N/A
Z00635041	0001	0003	49.1	45.6	12.7	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105251	.73	.26	.27	.12	.84	.09	.15	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97 (REAF 2012) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00193193

Kaiser Order Number: 693752

Line Item: 003

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
0360 Nom X 48.0000" X 96.0000"
PART NO.

PO/Rel 30309

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-002

2Nov15

Pg 1/1

Signed by: _____



運鋁鋼鐵股份有限公司
YUEN CHANG STAINLESS STEEL CO., LTD.

檢驗證明書

MILL TEST CERTIFICATE(S)

列印日期 ISSUE DATE: 2015/03/24

高雄市中區中正路235號13F
13F, No. 235 Jungjeng 4th Road, Chianjin
Chi, Kaohsiung, Taiwan
TEL: 886-7-9695858 FAX: 886-7-9685768
http://www.yuenchang.com.tw

客戶名稱 Customer	Thyssenkrupp Steel Services A Division Of Thyssenkrupp Materials Na Inc 22355 West Eleven Mile Road Southfield MI 48033 USA										DAS 14 9-89						
商品描述 Desc. Of Goods	Description Of Goods And/Or Services: Prime, Cold Rolled Stainless Steel Sheets, Sifted Edge, As Per ASTM A240/A480.										Thyssenkrupp Materials NA PO PEC-264559						
項目 Item	鋼卷編號 Coil No.	爐號 Heat Number(S)	鋼種 Steel Grade	表面 Finish	產品尺寸 Thickness x Width x Length	淨重 Net Weight (KGS)											
AF009	CAAL0268-14	DNF010-ADG	304	2B	26GA x 48 x 96	1,727											
AF010	CCWR0003-18	AOA004-AAB	304	2B	20GA x 48 x 96	1,102											
AF011	CCWR0003-19	AOA004-AAB	304	2B	20GA x 48 x 96	1,104											
AF003	CATF0016-20	BOA005-AFD	304	2B	16GA x 48 x 96	1,736											
AF001	CATF0016-18	BOA005-AFD	304	2B	16GA x 48 x 120	1,086											
AF002	CATF0016-19	BOA005-AFD	304	2B	16GA x 48 x 120	1,087											
AF008	CCYL0003-54	AOA002-AAD	304	2B	14GA x 48 x 144	901											
AF006	CAR50019-13	BOB006-ABD	304	2B	12GA x 48 x 96	1,073											
化學成分 Chemical Analysis (%)																	
Item	C	Si	Mn	P	S	Cr	Ni	N	Cu	Mo	Others	機械性質 Mechanical Properties					
AF009	0.045	0.480	1.158	0.037	0.0022	18.055	8.010	0.042	0.043			T.S N/MM2	Y.S(0.2%) N/MM2	Elong (%)	HB	HRB	HV
AF010	0.023	0.300	1.360	0.029	0.0112	18.250	8.040	0.071	0.310	0.110		765	300	58.0		83.5	
AF011	0.023	0.300	1.380	0.029	0.0112	18.250	8.040	0.071	0.310	0.110		651	294	57.0			160.0
AF003	0.050	0.430	1.110	0.039	0.0010	18.300	8.100	0.040	0.056	0.098		651	294	57.0			160.0
AF001	0.050	0.430	1.110	0.039	0.0010	18.300	8.100	0.040	0.056	0.098		686	281	56.0		83.0	
AF002	0.050	0.430	1.110	0.039	0.0010	18.300	8.100	0.040	0.056	0.098		686	281	56.0		83.0	
AF008	0.042	0.510	0.980	0.033	0.0020	18.190	8.040	0.058				686	281	56.0		83.0	
AF006	0.040	0.440	1.070	0.030	0.0020	18.200	8.000	0.040	0.188	0.040		644	280	54.9		83.5	
We hereby certify that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.												QC Manager					
We hereby certify that the products described above is free from radiation contamination and mercury.												ISO 9001					
We hereby certifying the material to ASTM A240/A480 As Per EN 10204/3.1												David Wang					
For and on behalf of YUEN CHANG STAINLESS STEEL CO., LTD.																	

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.250" x 2.00" X 144.0000"
PART NO.

PO Rel 30309

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-006

2Nov15

Pg 1/1

Signed by: 



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
DAS 14 11/103
9-89
http://www.extrudex.com

MILL TEST

BILL TO THYSSENKRUPP MATERIALS, NA	CERT CODE: 9	DIE NUMBER S 22772	DATE OF SHIPMENT Sep/09/2015	EXTRUDEX ORDER NO. 184306 - 1	MANIFEST NO. 334556
SHIP TO THYSSENKRUPP MATERIALS, NA	CUSTOMER PO PEC-269358	ALLOY 6061	TEMPER T6511	MADE IN CANADA	
SO DESCRIPTION 1.25"x2" FB	CUSTOMER PART NUMBER 22772-S	PART DESCRIPTION 1.25"x2" FB	SALESMAN FORBES DODWELL	CERTIFICATION ASTM B221-14 - AMS QQA 200/B	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/01/2015	42.70	39.10	14.75	89, 89.5, 89.3	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 29639 6061	0.55	0.235	0.197	0.057	0.83	0.057	0	0.019	0.027	0	0	0	0	0	0	0	0	0	Remainder	0.006

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

1 - CUSTOMER COPY

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6
0.0640 Nom X 48.0000" X 144.0000"
PART NO.

PO/Ref 30309

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-007

2Nov15

Signed by: *[Signature]*

Pg 1/3

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 3 pages (Page# 1)

Customer: COPCON PO#: PEC-269559 SO#: LJPAS4

MTR#: HECL1653.GIF

Item: 063481446061T6 Bundle: Z-1412Y6055-4 Heat#: Z-1412Y6055

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
HUIGUO ZHEN, GONGYI, HENAN, CHINA 461263
TEL: 371-47099611 FAX: 371-47099612

HECL1653

MILL TEST CERTIFICATE

TO

TA CHEN INTERNATIONAL INC.

5855 ODISPO AVENUE

LONG BEACH, CA 90805

TEL (562)808-8199

FAX: (562)808-8110

T7NY150103

INVOICE NO.

CONTRACT NO.

L48545-S/L49128-S/L49132-S/L49149-S/L49154-S/L49401-V/L49584-S/L49591-S

L49596-S/L49603-S/N07137-V/N07138-V/N07139-V/N0724C-V/N07373-S/N07376-I

N07377-V/N07449-V/N07455-V/N07465-S/N07468-V/N07469-V/N07476-I

LOADING PORT:

TIANJIN, CHINA

DESTINATION:

NEW YORK, USA

SHIPPING MARKS:

N/M

DATE:

15-Jan-15

ISF NO.

8FFT17A79519498

DAS

14

9-89

DESCRIPTION OF GOODS:

ALUMINUM COIL AND SHEET 3003 H14

CERTIFIED TO ALL AA, ASTM B209 - 10, AMS/QQA 250/2, AMS 4008K SPECS.

ALUMINUM TREAD COIL AND PLATE 3003 H22/H24

CERTIFIED TO MINGTAI TREAD BRIGHT SPECS

ALUMINUM SHEET 5052 H32

CERTIFIED TO ALL AA, ASTM B209 - 10, AMS/QQA 250/8, AMS 4016M SPECS.

ALUMINUM SHEET 6061 T6

CERTIFIED TO ASTM B209, ASME SB-209, AMS 4027M, AMS-QQ-A-250/11 SPECS

CIF NEW YORK, USA

CHEMICAL COMPOSITION

Heat No.	Alloy/Tmp	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
A-1412474	3003 H14	0.117	0.509	0.19	1.046	0.0015	0.006	0.028	0.006	0.15	REMAINDER
A-1412822	3003 H14	0.092	0.569	0.116	1.111	0.018	<0.001	0.03	0.01	0.15	REMAINDER
A-1412823	3003 H14	0.081	0.567	0.109	1.105	0.016	<0.001	0.03	0.01	0.15	REMAINDER
A-1412836	3003 H14	0.077	0.571	0.106	1.106	0.023	<0.001	0.03	0.009	0.15	REMAINDER
A-1412838	3003 H14	0.084	0.554	0.122	1.107	0.016	<0.001	0.031	0.006	0.15	REMAINDER
A-1412856	3003 H14	0.081	0.562	0.113	1.162	0.009	0.002	0.033	0.006	0.15	REMAINDER
A-1412877	3003 H14	0.082	0.558	0.105	1.119	0.013	0.002	0.032	0.007	0.15	REMAINDER
A-1501751	3003 H14	0.094	0.552	0.113	1.113	0.007	0.002	0.031	0.006	0.15	REMAINDER
A-1501752	3003 H14	0.11	0.466	0.103	1.085	0.002	0.002	0.041	0.006	0.15	REMAINDER
A-1501753	3003 H14	0.109	0.496	0.131	1.162	0.003	<0.001	0.008	0.004	0.15	REMAINDER
A-1501755	3003 H14	0.107	0.506	0.13	1.156	0.003	<0.001	0.016	0.004	0.15	REMAINDER
A-1501757	3003 H14	0.085	0.467	0.097	1.101	0.004	<0.001	0.029	0.005	0.15	REMAINDER
A-1501758	3003 H14	0.075	0.465	0.09	1.113	0.005	<0.001	0.029	0.005	0.15	REMAINDER
A-1501759	3003 H14	0.124	0.518	0.096	1.124	0.01	<0.001	0.034	0.005	0.15	REMAINDER
A-1501770	3003 H14	0.09	0.522	0.134	1.097	0.006	<0.001	0.03	0.005	0.15	REMAINDER
A-1501771	3003 H14	0.083	0.48	0.095	1.12	0.005	<0.001	0.024	0.005	0.15	REMAINDER
B-14121528	3003 H14	0.121	0.559	0.119	1.114	0.012	<0.001	0.034	0.007	0.15	REMAINDER
B-14121530	3003 H14	0.069	0.552	0.114	1.11	0.012	0.002	0.031	0.005	0.15	REMAINDER
B-14121531	3003 H14	0.077	0.562	0.106	1.117	0.014	<0.001	0.031	0.006	0.15	REMAINDER

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6

.0640 Nom X 48.0000" X 144.0000"

PART NO.

PO/Rel 36369

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-007

2Nov15

Signed by:

Pg 2/3

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 3 pages (Page# 2)

Customer: COPCON PO#:PEC-269559 SO#:LJPAB4

MTR#:HECL1653-2.GIF

Item: 063481446061T6 Bundle: Z-1412Y6055-4 Heat#: Z-1412Y6055

DAS

14

9-89

15/11/03

HECL1653-2

B-14121589	3003 H14	C.118	0.573	0.115	1.166	0.02	<0.001	0.032	0.005	0.15	REMAINDER
B-14121593	3003 H14	C.132	0.584	0.148	1.163	0.013	0.004	0.014	0.004	0.15	REMAINDER
B-14121595	3003 H14	C.113	0.5	0.136	1.189	0.037	0.006	0.035	0.006	0.15	REMAINDER
B-14121596	3003 H14	C.113	0.566	0.124	1.168	0.007	<0.001	0.010	0.005	0.15	REMAINDER
B-14121601	3003 H14	C.098	0.671	0.115	1.115	0.007	0.002	0.03	0.007	0.15	REMAINDER
B-14121604	3003 H14	0.095	0.684	0.124	1.143	0.007	0.002	0.05	0.005	0.15	REMAINDER
B-14121605	3003 H14	0.103	0.516	0.118	1.161	0.002	<0.001	0.02	0.005	0.15	REMAINDER
B-14121613	3003 H14	0.101	0.515	0.121	1.172	0.007	0.002	0.015	0.005	0.15	REMAINDER
B-15011127	3003 H14	0.066	0.516	0.098	1.13	0.053	<0.001	0.03	0.007	0.15	REMAINDER
D1412170	3003 H14	0.087	0.556	0.12	1.105	0.007	<0.001	0.021	0.006	0.15	REMAINDER
D1501027	3003 H14	0.078	0.469	0.085	1.137	0.014	<0.001	0.034	0.005	0.15	REMAINDER
D1501029	3003 H14	0.078	0.459	0.085	1.136	0.013	<0.001	0.033	0.005	0.15	REMAINDER
Z-1412Y3123	3003 H14	0.118	0.567	0.105	1.126	0.004	0.007	0.035	0.01	0.15	REMAINDER
Z-1412Y3255	3003 H14	0.102	0.574	0.129	1.185	0.014	0.004	0.031	0.001	0.15	REMAINDER
Z-1412Y3446	3003 H14	0.148	0.569	0.109	1.132	0.009	0.004	0.035	0.009	0.15	REMAINDER
Z-1412Y3447	3003 H14	0.09	0.556	0.113	1.132	0.009	0.004	0.031	0.007	0.15	REMAINDER
Z-1412Y3466	3003 H14	0.067	0.44	0.096	1.11	0.067	0.016	0.032	0.0066	0.15	REMAINDER
Z-1412Y3470	3003 H14	0.171	0.662	0.121	1.215	0.011	0.011	0.042	0.002	0.15	REMAINDER
Z-1412Y3488	3003 H14	0.123	0.526	0.079	1.089	0.0089	0.0084	0.029	0.0049	0.15	REMAINDER
Z-1412Y3488	3003 H14	0.123	0.526	0.079	1.089	0.0089	0.0084	0.029	0.0049	0.15	REMAINDER
Z-1412Y3488	3003 H14	0.121	0.564	0.086	1.033	0.0055	0.014	0.028	0.0055	0.15	REMAINDER
ZB-1412YB063	3003 H22	0.08	0.583	0.118	1.14	0.022	0.005	0.031	0.006	0.15	REMAINDER
Z-1412YB080	3003 H22/H24	0.169	0.577	0.092	1.036	0.0076	0.0067	0.029	0.0082	0.15	REMAINDER
Z-1412YB193	3003 H22/H24	0.099	0.525	0.071	1.024	0.0049	0.012	0.028	0.0046	0.15	REMAINDER
Z-1412YB197	3003 H22/H24	0.116	0.536	0.07	1.013	0.012	0.016	0.029	0.0051	0.15	REMAINDER
ZB-1412YB097	3003 H22/H24	0.098	0.578	0.12	1.108	0.004	0.006	0.03	0.008	0.15	REMAINDER
ZB-1412YB214	3003 H22/H24	0.092	0.548	0.089	1.031	0.0055	0.01	0.02	0.0046	0.15	REMAINDER
ZB-1412YB302	5052 H32	0.088	0.332	0.022	0.045	2.275	0.009	0.013	0.18	0.15	REMAINDER
ZB-1412YB310	5052 H32	0.108	0.267	0.031	0.045	2.319	0.005	0.014	0.17	0.15	REMAINDER
ZB-1412YB311	5052 H32	0.063	0.29	0.022	0.065	2.257	0.007	0.011	0.166	0.15	REMAINDER
Z-1412Y6055	6061 T6	0.563	0.56	0.254	0.634	1.037	0.007	0.021	0.187	0.15	REMAINDER

MECHANICAL PROPERTY

Heat No.	Alloy/Tmp	Specs (n)	Tensile strength		Yield strength		Elongation
			Mpa	Ksi	Mpa	Ksi	%
A-14124044	3003 H14	032*48"C	166	24	142	21	12
A-1412622	3003 H14	040*48"C	166	24	142	21	12
A-1412623	3003 H14	050*48"C	167	24	144	21	13
A-1412636	3003 H14	063*48"C	167	24	144	21	14
A-1412638	3003 H14	040*48" 20	170	25	147	21	13
A-1412666	3003 H14	032*40" 20	172	25	147	21	13
A-1412677	3003 H14	090*48" 120	174	25	145	21	13
A-1501761	3003 H14	050*48"C	171	25	145	21	11
A-1501762	3003 H14	040*48"C	169	25	144	21	12
A-1501763	3003 H14	060*48"C	172	25	146	21	12
A-1501766	3003 H14	040*48"C	168	25	142	21	12
A-1501767	3003 H14	040*48"C	169	25	143	21	12
A-1501768	3003 H14	040*48"C	172	25	143	21	11
A-1501769	3003 H14	063*48"C	167	24	147	21	12
A-1501770	3003 H14	063*48"C	173	25	142	21	13
A-1501771	3003 H14	080*48"C	168	24	143	21	12
B-14121326	3003 F14	040*36"C	169	25	143	21	12
B-1412153C	3003 F14	040*36"C	166	24	146	21	13
B-14121531	3003 F14	040*36"C	167	24	142	21	14
B-14121585	3003 F14	126*48"C	171	25	141	20	12
B-14121593	3003 F14	080*60" 120	172	25	143	21	13

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6
 .0640 Nom X 48.0000" X 144.0000"
 PART NO.

PO# 30309

We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-961589-007

2Nov15

Signed by: 

Pg 3/3

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 3 pages (Page# 3)

Customer: COPCON PO#: PEC-269559 SO#: LJPA84

MTR#: HECL1653-3.GIF

Item: .063481446061T6 Bundle: Z-1412Y6055-4 Heat# Z-1412Y6055

DAS
 14
 9-89

15/11/03

HECL1653-3

B-14121696	3003 H14	.125*48"C	173	26	142	21	12
B-14121696	3003 H14	.125*48"C	172	26	142	21	11
B-14121601	3003 H14	.090*60*120	167	24	142	21	14
B-14121604	3003 H14	.125*48"C	168	24	143	21	13
B-14121606	3003 H14	.125*48"C	168	24	142	21	13
B-14121613	3003 H14	.030*60"C	167	24	141	20	12
B-15C11127	3003 H14	.125*60*144	166	24	139	20	12
D1412110	3003 H14	.190*60*120	165	24	141	20	13
D1501027	3003 H14	.190*48*96	172	26	145	21	13
D1501028	3003 H14	.190*48*120	173	26	150	22	12
Z-1412Y3123	3003 H14	.190*60"C	143	21	124	18	9
Z-1412Y3205	3003 H14	.032*48"C	145	21	120	19	20
Z-1412Y3446	3003 H14	.126*60"C	146	21	125	18	4
Z-1412Y3447	3003 H14	.126*60"C	152	22	134	19	12
Z-1412Y3466	3003 H14	.032*48"C	170	26	139	20	12
Z-1412Y3475	3003 H14	.063*48"C	171	26	138	20	16
Z-1412Y3486	3003 H14	.063*43*120	175	26	127	18	12
Z-1412Y3488	3003 H14	.063*48*144	175	26	127	18	12
Z-1412Y3489	3003 H14	.090*48*120	142	21	123	18	20
ZB-1412YBC83	3003 H22	.250*60*120	129	19	92	13	26
Z-1412YB090	3003 H22H24	.125*60"C	131	19	113	16	16
Z-1412YB153	3003 H22H24	.125*60*120	130	19	101	16	20
Z-1412YB157	3003 H22H24	.060*60"C	124	18	95	14	18
ZB-1412YB097	3003 H22H24	.188*40*96	121	18	92	13	27
ZB-1412YB214	3003 H22H24	.125*48*96	133	19	103	16	17
ZB-1412YB302	5052 H32	.200*60*44	225	33	180	25	24
ZU-1412YB310	5052 H32	.375*48*96	222	32	159	23	31
ZB-1412YB311	5052 H32	.375*60*120	215	31	181	23	31
Z-1412Y6055	6061 T6	.063*48*144	339	49	308	45	14

PRODUCER: HENAN MINGTAI AL. INDUSTRIAL CO., LTD
 COUNTRY OF MELT AND MANUFACTURE: CHINA

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
 河南明泰铝业股份有限公司

10/11

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 304
DATE 15/11/03

PO / BATCH NO 30309/133511

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 160 sf
QUANTITY INSPECTED 160 sf
QUANTITY REJECTED _____

THICKNESS ORDERED .063
THICKNESS RECEIVED .059
SHEET SIZE ORDERED 4' X 8'
SHEET SIZE RECEIVED 4' X 8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	☒ N	
CORRECT FINISH	☒ Y	N	
CORROSION	Y	☒ N	
CORRECT GRAIN DIRECTION	☒ Y	N	
CORRECT MATERIAL	☒ Y	N	
CORRECT THICKNESS	☒ Y	N	
PHOTO REQUIRED	Y	☒ N	
CORRECT MATERIAL	☒ Y	N	
CORRECT REF # TO LINK CERT	☒ Y	N	
CORRECT MATERIAL IDENTIFICATION	☒ Y	N	
CORRECT M# ON THE MATERIAL	☒ Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	☒ N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	☒ N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY <u>DAS</u> <u>14</u> DATE <u>15/11/03</u>	SIGNED OFF BY _____ DATE _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 304
DATE 15/11/03

PO / BATCH NO 30309/133511

MATERIAL CERT RECD yes
QUANTITY RECEIVED 96 SA
QUANTITY INSPECTED 96 SA
QUANTITY REJECTED _____

THICKNESS ORDERED 1.040
THICKNESS RECEIVED 1.036
SHEET SIZE ORDERED 4'X8'
SHEET SIZE RECEIVED 4'X8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	
CORRECT REF # TO LINK CERT	(Y)	N	
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>DAS</u> <u>14</u> <u>9-89</u>	SIGNED OFF BY _____		
DATE <u>15/11/03</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL	6061T6	DATE	15/11/03
MATERIAL CERT REC'D	Y	QUANTITY RECEIVED	12'
QUANTITY INSPECTED	12'	QUANTITY REJECTED	
THICKNESS ORDERED	.500X1.25	THICKNESS RECEIVED	.500X1.25
SHEET SIZE ORDERED		SHEET SIZE RECEIVED	
PO / BATCH NO	30369/33571		

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUREMETER READING				

Testers located in the Quality Office

CC 18 INSPECTION	
INSPECTED BY DAS	DATE 15/11/03
SIGNED OFF BY	DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 6061-T6
DATE 15/11/03

PO / BATCH NO 30309/133511

MATERIAL CERT RECD yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED 1.00X2.00
THICKNESS RECEIVED 1.00X2.00
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	☒	
CORRECT FINISH	☒	N	
CORROSION	Y	☒	
CORRECT GRAIN DIRECTION	☒	N	
CORRECT MATERIAL	☒	N	
CORRECT THICKNESS	☒	N	
PHOTO REQUIRED	Y	☒	
CORRECT MATERIAL	☒	N	
CORRECT REF # TO LINK CERT	☒	N	
CORRECT MATERIAL IDENTIFICATION	☒	N	
CORRECT M# ON THE MATERIAL	☒	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	☒	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	☒	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>15/11/03</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 6061-T6
DATE 15/11/03

PO / BATCH NO 30309/133511

MATERIAL CERT RECD yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED 1.50X2.50
THICKNESS RECEIVED 1.50X2.50
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	☒	
CORRECT FINISH	☒	N	
CORROSION	Y	☒	
CORRECT GRAIN DIRECTION	☒	N	
CORRECT MATERIAL	☒	N	
CORRECT THICKNESS	☒	N	
PHOTO REQUIRED	Y	☒	
CORRECT MATERIAL	☒	N	
CORRECT REF # TO LINK CERT	☒	N	
CORRECT MATERIAL IDENTIFICATION	☒	N	
CORRECT M# ON THE MATERIAL	☒	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	☒	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	☒	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY <u>DAS</u> <u>14</u>	SIGNED OFF BY _____
DATE <u>15/11/03</u>	DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 6061T6 DATE 15/11/03
 QUANTITY RECEIVED 480
 QUANTITY INSPECTED 12
 QUANTITY REJECTED 12
 MATERIAL CERTIFIED
 THICKNESS ORDERED 2.00X1.25
 THICKNESS RECEIVED 2.00X1.25
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED
 PO / BATCH NO 30309/133511

DESCRIPTION	NCR	Check	Y/N	COMMENTS
SURFACE DAMAGE	Y	(N)		
CORRECT FINISH	Y	(N)		
CORROSION	Y	(N)		
CORRECT GRAIN DIRECTION	Y	(N)		
CORRECT MATERIAL	Y	(N)		
CORRECT THICKNESS	Y	(N)		
PHOTO REQUIRED	Y	(N)		
CORRECT MATERIAL	Y	(N)		
CORRECT REF # TO LINK CERT	Y	(N)		
CORRECT MATERIAL IDENTIFICATION	Y	(N)		
CORRECT # ON THE MATERIAL	Y	(N)		
DOS THIS MATERIAL REQUIRE	Y	(N)		
DOS THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)		
DOS THIS REQUIRE AN EXTRUSION REPORT	Y	(N)		

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR B	

Testers located in the Quality Office

QC 18 INSPECTION
 INSPECTED BY 14 9-89
 DATE 15/11/03
 SIGNED OFF BY
 DATE
ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and send to be scanned and received in

QC 18 (QMS) Quality Assurance Approved OAMTRIF Material Receipt Inspection Form rev B

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 6061 T6
DATE 15/11/03

PO - BATCH NO 30309/13351

MATERIAL CERT RECEIVED yes
QUANTITY RECEIVED 192 SF
QUANTITY INSPECTED 192 SF
QUANTITY REJECTED _____

THICKNESS ORDERED 1.063
THICKNESS RECEIVED 1.060
SHEET SIZE ORDERED 4'X12'
SHEET SIZE RECEIVED 4'X12'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	
CORRECT REF # TO LINK CERT	(Y)	N	
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	<u>DAS</u> <u>14</u> <u>9-89</u>	SIGNED OFF BY	
DATE	<u>15/11/03</u>	DATE	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30309

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 1 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174B1.500X02.250 <i>not record</i>	17-4 SS Bar 1.50 X2.250	11/12/2015 Yes 11/12/2015		12.00 f ✓	\$51.21	\$614.50
MATERIAL: 17-4 PH SS BAR AS PER AMS 5604 / 5643 GRAIN DIRECTION MUST BE ALONG LENGTH MINIMUM YIELD TENSILE STRENGTH = 100KSI MINIMUM ULTIMATE TENSILE = 150 KSI							
Line Total:							\$614.50
2	M2024T3S.040	2024-T3 .040 sheet	11/4/2015 Yes 11/4/2015		48.00 sf	\$4.06	\$195.00
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$195.00

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30309**

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 2 of 7

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

905 669 9444

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

3	M2024T3S.063	2024-T3 .063 sheet	11/4/2015	0.00	\$0.00	\$0.00
			Yes	sf		
			11/4/2015			

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

	M2024T3S.063		11/4/2015	144.00	\$4.69	\$675.00
				sf		
			11/4/2015			

Line Total: \$675.00

4	M303B1.000X1.000	303 BAR 1" X 1"	11/4/2015	12.00	\$19.51	\$234.13
			Yes	f		
			11/4/2015			

MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$234.13

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30309**

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 3 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

5	M304S16GA ✓	304/316 Sheet .063	11/4/2015 Yes 11/4/2015	160.00 sf	\$4.01	\$641.60
---	-------------	--------------------	-------------------------------	--------------	--------	----------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$641.60

6	M304S20GA ✓	304/316 .040 Sheet	11/4/2015 Yes 11/4/2015	96.00 sf	\$3.00	\$288.00
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PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

SP 12-11-2

Line Total: \$288.00

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30309**

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 4 of 7

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

7	M6061T6B0.187X04.000	6061-T6 Bar .187 x 4.00	11/4/2015	12.00	\$2.92	\$35.00
		Yes		f		
		11/4/2015				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$35.00

8	M6061T6B0.500X01.25q	6061-T6 Bar .500 x 1.25	11/4/2015	12.00	\$2.92	\$35.00
		Yes		f		
		11/4/2015				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$35.00

9	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	11/4/2015	12.00	\$5.44	\$65.25
		Yes		f		
		11/4/2015				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015

SP F-11-2



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30309**

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 5 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Total: \$65.25

10 M6061T6B1.500X02.500 6061-T6 Bar 1.50 x 2.50 11/4/2015
Yes
11/4/2015

12.00 ✓
f \$10.90 \$130.80

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$130.80

11 M6061T6B2.000X01.250 6061-T6 Bar 2.00 x 1.25 11/4/2015
Yes
11/4/2015

12.00 J
f \$6.75 \$81.00

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$81.00

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30309

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 6 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

12	M6061T6S.040	6061-T6 .040 Sheet	11/4/2015	96.00	\$4.95	\$475.20
			Yes	sf		
			11/4/2015			

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

Line Total: \$475.20

13	M6061T6S.063	6061-T6 .063 Sheet	11/4/2015	192.00	\$2.88	\$553.60
			Yes	sf		
			11/4/2015			

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

Line Total: \$553.60

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note:

10/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30309**

Purchase Order Date 10/29/2015

PO Print Date 10/29/2015

Page Number 7 of 7

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

14 71401-45

PROCUREMENT
QUALITY CLAUSES

11/4/2015

1.00

\$0.00

\$0.00

No

11/4/2015

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

SEP-11-2

Line Total:

\$0.00

PO Total:

\$4,024.08

PO Instructions: quotation # PEC ST-860534 and
PEC ST-862074

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

2

Change Date:

10/29/2015